

Multiple W/O/W-type emulsion for cosmetic and therapeutic purposes

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Abstract of DE19630176

A multiple W/O/W-type emulsion made by phase-inversion for cosmetic and therapeutic purposes and of oil : water ratio maximum 35 : 65 contains (A) a nonionic, ethoxylated PEG-phytosterol emulsifier with 5-26 EO units and having a cloud point of 50-110 deg C and HLB above 10; (B) oils with at least 5 wt.% (based on total emulsion wt.) of components with polarity below 20 mN/m and EHLB above 10; and (C) viscosity stabilisers based on mixtures of polar waxes and/or organic hydrogel formers. Claimed production is by (i) heating the water and oil/emulsifier phases to the phase inversion temperature (PIT); (ii) immediately homogenising the mixture without introduction of shear and with prevention of air inclusion until the stabilisers solidify to form multiple droplets of 10-30 μ ; and (iii) cooling the emulsion (preferably using an inclined blade stirrer). Preferably the wt. ratio emulsifier : consistency additive : oil : demineralised water is 1-8 : 2-10 : 5-32 : 50-92 and the PIT is 60-90 deg C, while the emulsion pH is 5-6.5. The stabiliser is a long-chain, saturated, especially 8-18C, fatty alcohol and/or glycerol mono- or di- stearate and/or an organic hydrogel former, especially a polyacrylate, xanthan gum or alginate. Optionally also present are further oil components, especially plant or animal oils or fats, liquid wax esters, fatty acid esters, paraffin oils and/or silicon oils; moisturisers, especially glycerol, propylene glycol, butylene glycol and/or sorbitol; preservatives; or antioxidants.

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